

## ABSTRACT

Deterioration in frequency stability with time in a conventional piezoelectric oscillator using an accumulation type MOS capacitance element is improved. A P-channel transistor type or an N-channel transistor type is used as a MOS capacitance element in a variable capacitance circuit used in a piezoelectric oscillator. A bias voltage is applied between P-type or N-type extraction electrodes formed in source and drain regions and an N-type extraction electrode provided in an N-well region or a P-type extraction electrode provided in a P-well region. Instability in the MOS capacitance element with time is thus eliminated.